



Fig. 3

	Model of User Condition 210	
User: X Time: 14:22	2 Date 10/15/XX	
Latitude	37°55.3′ N	
Longitude	95°24.7′ W	
Altitude	102'	
Heart Rate	57 beats/minute	
Blood Pressure	125 / 80	
Last User Input	Voice Command "Stop Recording"	
Ambient Temperature	67°F	
Ambient Noise	20 dB	
Location	Office	
Speed	2 MPH	+/- 10%
Nearby Objects	Desk	
Nearby People	Physical: None. Audio: "Doug Smith"	
User Activity	Talking on Cell Phone, Walking	Highly Likely
Cognitive Load	77	
Level of Privacy	Company, Executive	
Scope of Audience	Self	
Application X-Factor 1	Normal: Mean-23, Std Dev 3	
User Format Preference	Visual > Auditory .	
User Device Preference	Eyeglass Mounted Display	
	-	

Fig. 4

User Characterization Module 205

(<Current. Time> - <Time. Of.Last. User.Input>) > 5 minutes THEN <Interacting. With. Computer> <Latitude> \approx "37°55.2'N" AND <Longitude> \approx "95°24.7'W" THEN <Location> = "Office" Includes "Seated" THEN <Nearby People. Physical > Includes "Unidentified Person" <Output.Intrusive.To.Others> = "Likely" THEN <Scope of Audience> = "Self" <Infrared.Link.To.Desktop> = True THEN <Nearby Objects> Includes "Desk" <Voice. Recognition. ID> <> "X" AND <Speakerphone. Status> = "Disabled" <Desktop.Motion.Sensor.Human.Movement> = True AND <User Activity> <Nearby People. Physical> = "None" THEN <Scope of Audience> = "Self" THEN <Nearby People> Includes ValueOf <Voice Recognition. ID> <Application X Output> = "Undesired" WITH Likeliho od "Likely" <User Activity> Includes "Walking" AND <User Activity> Includes <User.Mood> Includes "Angry" THEN <Cognitive Load> = +20% <Nearby People.*> Includes Only [Company Executives] THEN <Nearby People.*> Includes Only [Company Employees] THEN <User Activity> = "Talking *" THEN <Cognitive Load> = 55 "Talking On Cell Phone" THEN <Cognitive Load> = 77 <User Activity> = "Walking" THEN <Cognitive Load> = 20 <Output.To.User> = True THEN <Cognitive Load> = +10 = False WITH Likelihood "Somewhat Likely" <Level Of Privacy> Includes "Executive" <Level of Privacy> Includes "Company" AppX:IF < Application X-Factor 1.Mean >> 25 THEN WHILE WHILE User: 出出 出出 H H 出 H

The first time to the control of the

Fig. 5

Handheld Flat Panel Display

Device

Speaker 132

Eyeglass Mounted

Earpiece

130

Display 134

Display 136 Display 160

Tactile

Speaker 162

Olfactory

Device 164 Printer 166

Telephone

891

Pager 502

Telephone

504

Cellular

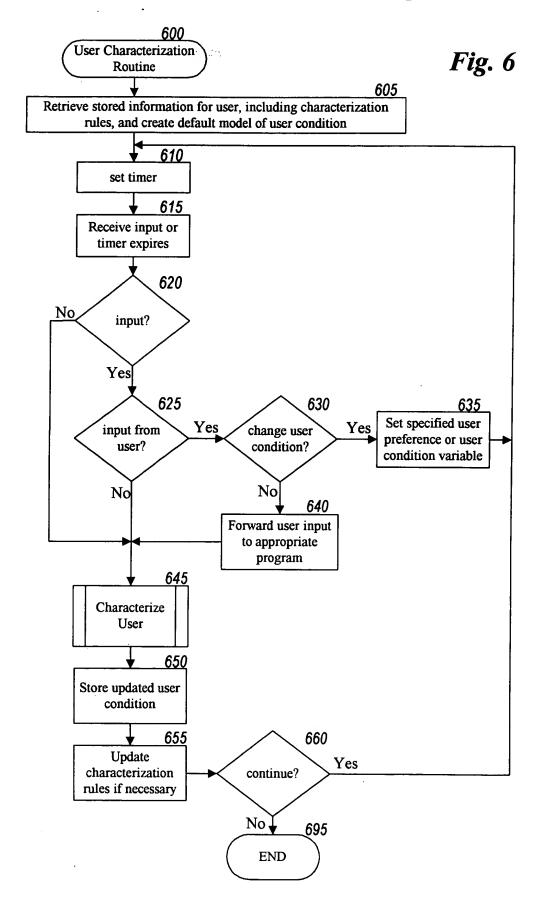
Car Radio

506

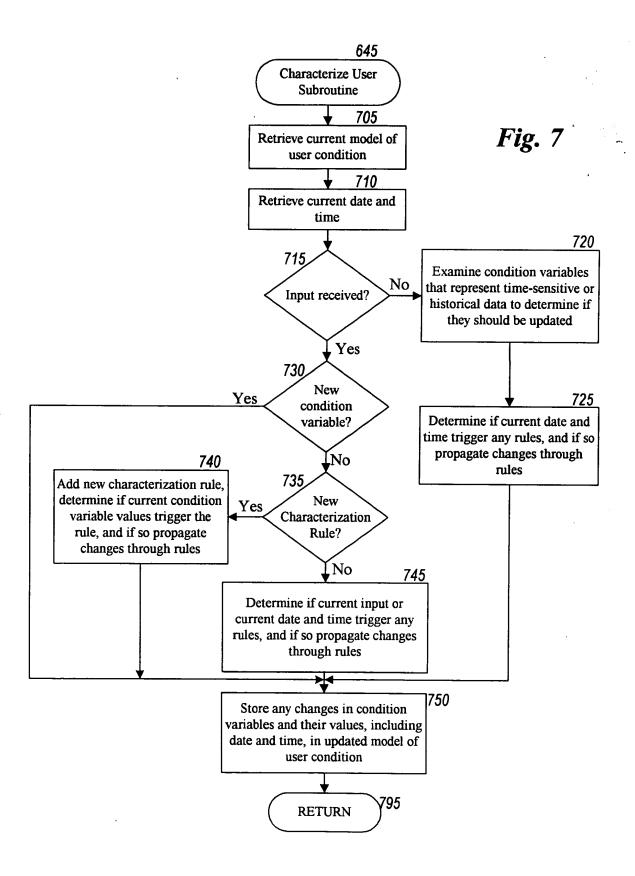
Output Device Selector Module 215 Degree of Intrusiveness Very Low-Medium Medium-Very High Medium-Very High Somewhat High High-Very High High-Very High on Others Very Low Very Low Very Low Very High Very Low High Somewhat Low Audience Interruptibility Low-Medium Medium-High Degree of Very Low-Very Low-Very High Very Low Very High Medium-Very High Medium-High-Low Low-High Low-High High Self + Few Unlimited Scope of Self [+3] Self +6 Many Many Self Self Self Self Self Self Sensitive Level of Business, Sensitive **Business** Business Sensitive Privacy Family Friends Highly Close ₹ All ٩ ₹ All Somewhat High Cognitive Load Somewhat High Somewhat Low Somewhat High Somewhat High Somewhat High Very Low-Very Low-Very Low-Very Low-Very Low-Very Low-Very Low-Very High Very Low-Very Low-Medium-Very High Medium Medium Medium Low-Low-High Visual, Audio Visual, Audio, Supported Olfactory Tactile Audio Audio Audio Audio Senses Visual Visual Visual Tactile Audio 밆 × Available Currently User: X × × × × × × × × ×













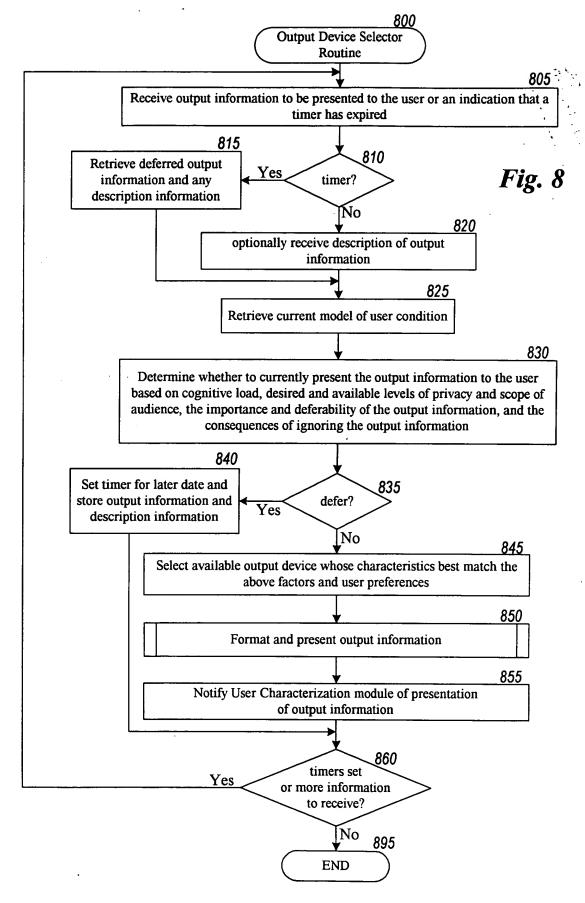


Fig. 9

